4.10 odd answers

1a. $f(x)$ is not a function

1b. $f^{-1}(x)$ is a function

3a. $f(x)$ is a function

3b. $f^{-1}(x)$ is a function

5. $f^{-1}(x) = \frac{x+6}{3}$ $\text{Domain} = (-\infty,\ \infty)$

7. $f^{-1}(x) = \frac{-x-3}{x-2}$ $\text{Domain} = (-\infty, 2) \cup (2,\ \infty)$

9. $f^{-1}(x) = x^2 + 2$ $\text{Domain} = [0, \infty)$

11. $f^{-1}(x) = \sqrt[3]{x-4}$ $\text{Domain} = (-\infty,\ \infty)$

13. $f^{-1}(x) = \sqrt[3]{x-6} + 1$ $\text{Domain} = (-\infty,\ \infty)$

15. yes

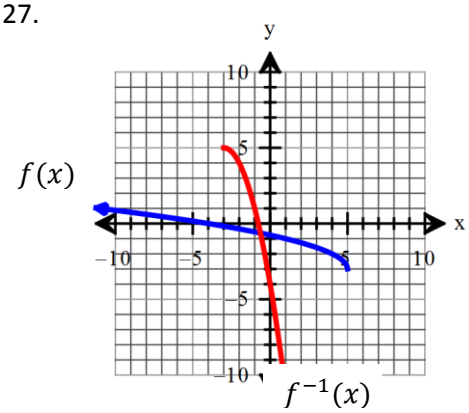
17. yes

19-23 see work

25.

L1	L2
1.7	-17
1.6	-12
1.5	-9
1.4	-7
1	-3

27.



29. $[-2,\ \infty)$ or $(-\infty, -2]$

31. $[-5,\ \infty)$ or $(-\infty, -5]$

33. $x^2 - 14x + 49$

35. $x = \dfrac{5 \pm \sqrt{11}i}{4}$